

FIG. 1

09880070.061441

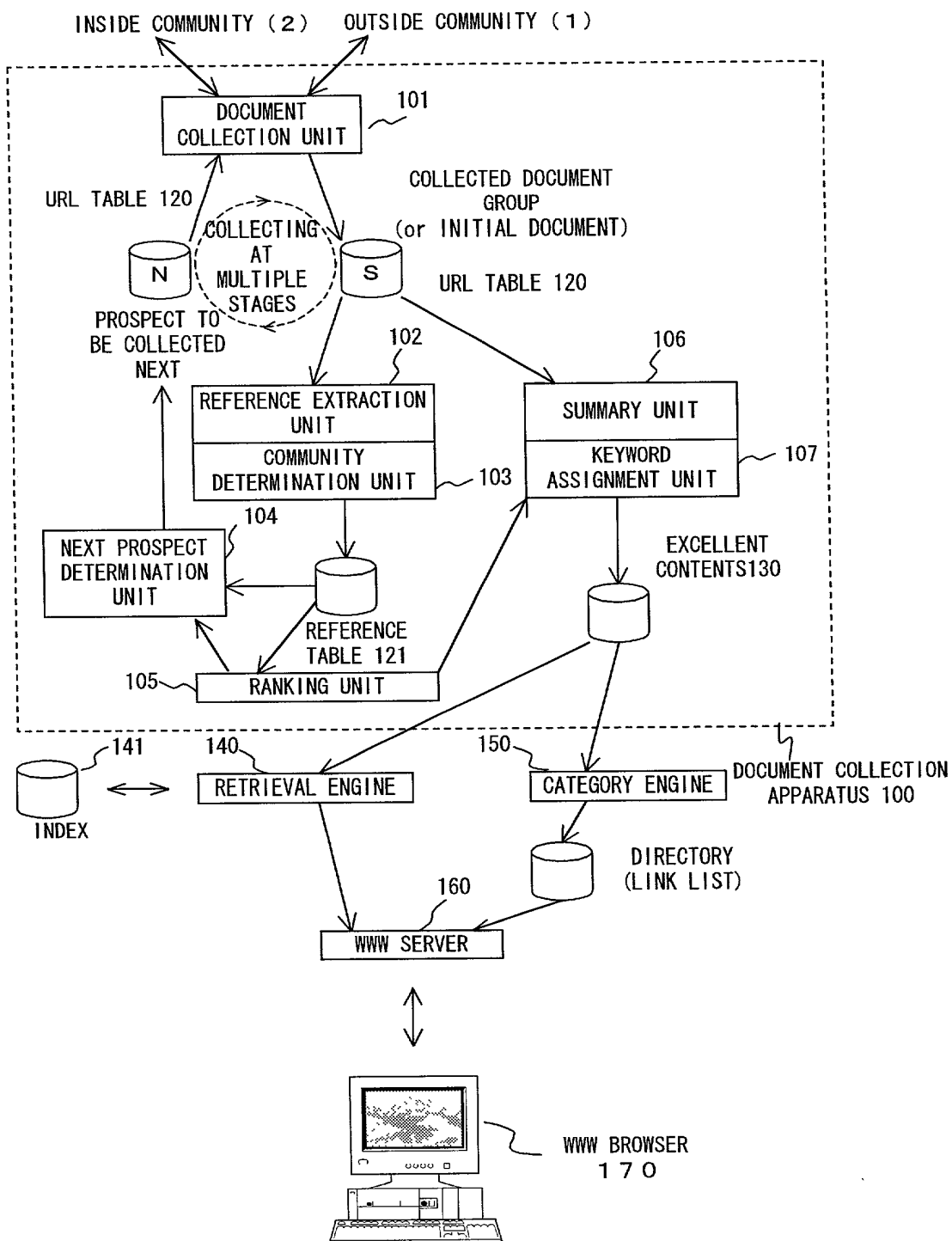


FIG. 2

URL TABLE 120

DOCUMENT ID	URL	ACCUMULATE FLAG	COMMUNITY FLAG	SIGNIFICANCE LEVEL
doc 1	http://www.abc.com/	1	1	.....
doc 2	http://www.klm.com/	1	0	.....
.....	.....	.....	.....	.....

FIG. 3

REFERENCE TABLE 121

REFERRING DOCUMENT ID	REFERENCED DOCUMENT ID <sub>1</sub> (INSIDE COMMUNITY)	REFERENCED DOCUMENT ID <sub>2</sub> (OUTSIDE COMMUNITY)
doc 1	doc 2, doc 3, doc 4	doc 5, doc 6, doc 7
doc 2	doc 4, doc 8	doc 9, doc 10
....	....	....

FIG. 4

REFERENCING EXPRESSION TABLE 122

EXPRESSION ID (w)	EXPRESSION CHARACTER STRING	FREQUENCY (DF (W))	NECESSITY/ NON-NECESSITY FLAG
r w 1	ABC COMPANY	2 4	1
r w 2	RETURN TO TOP	2 8 3 0 5	0
.....	.....	.....	.....

FIG. 5

COLLECTED DOCUMENT FILE 123

EXPRESSION ID (w) DOCUMENT ID (d)	r w 1	r w 2	. . .	r w j	. . .	r w m
doc1	1 9	0	. . .		. . .	
doc2	0	2	. . .		. . .	. . . .
. . .						
doc i				TF (doc i, r w j)		
. . .						
doc n	. . .	. . .	. . .		. . .	. . . .

F I G. 6

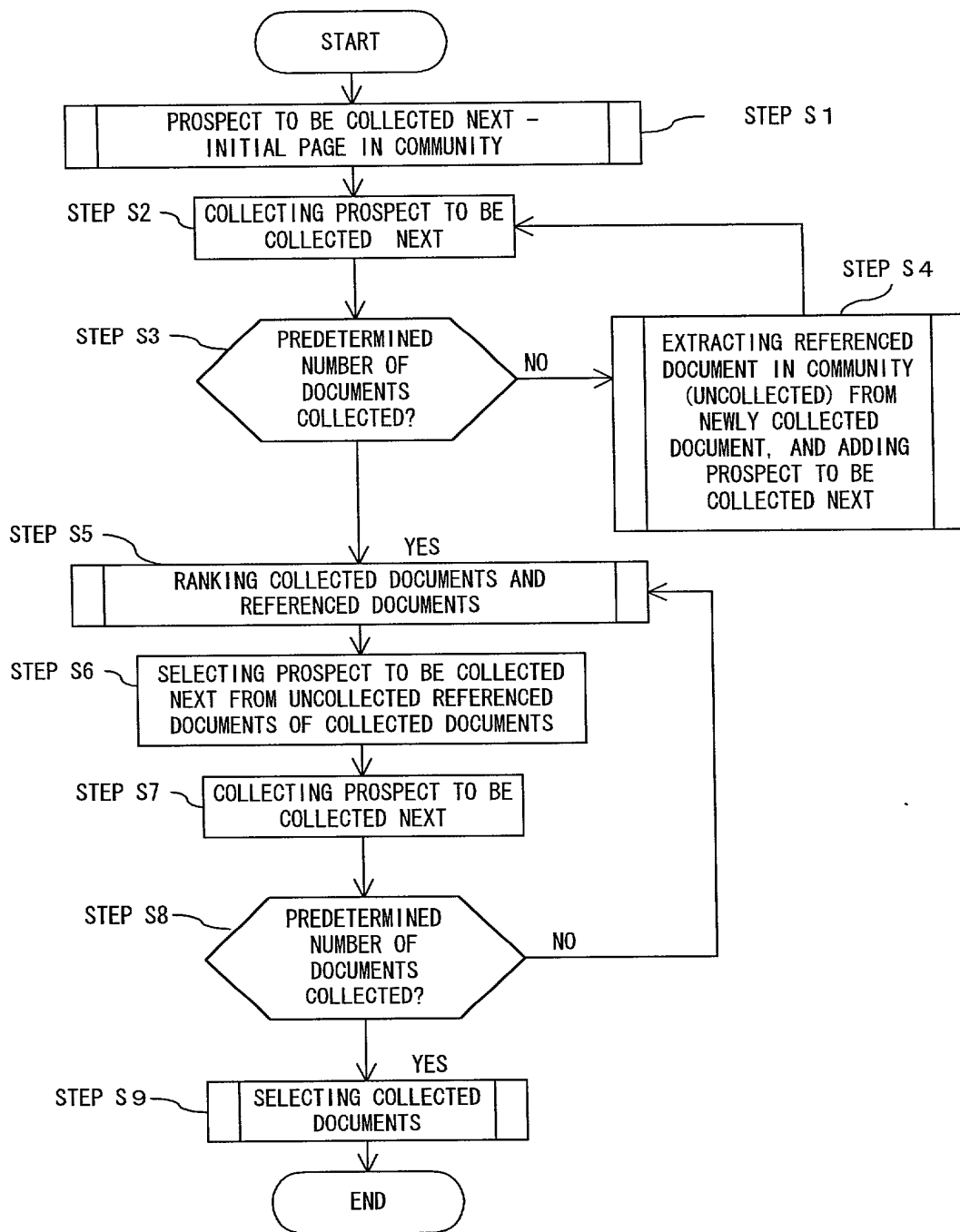


FIG. 7

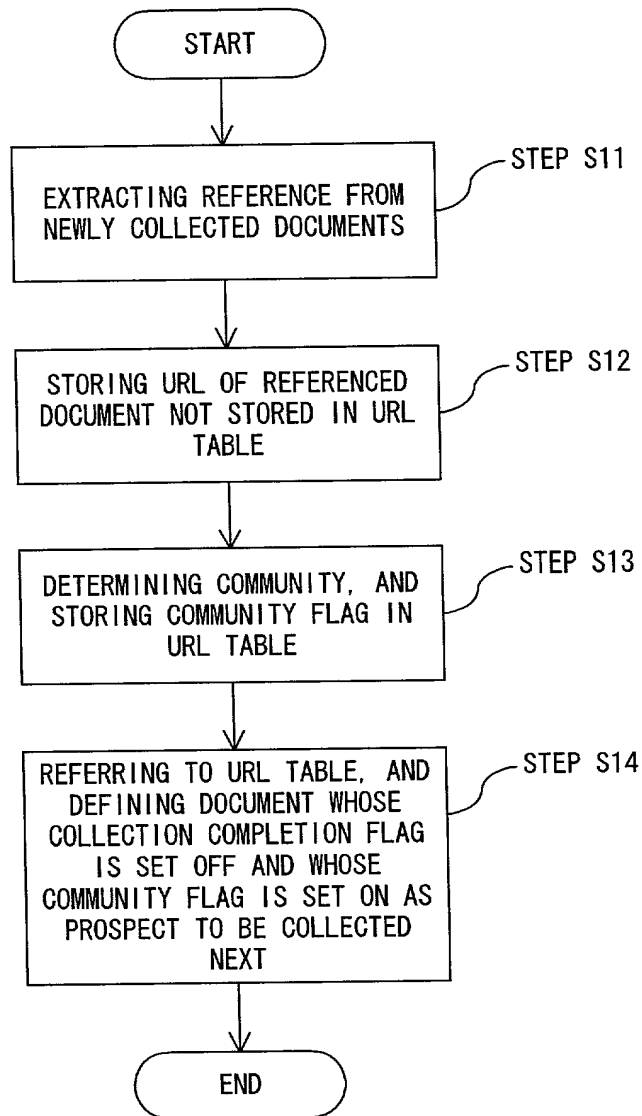


FIG. 8



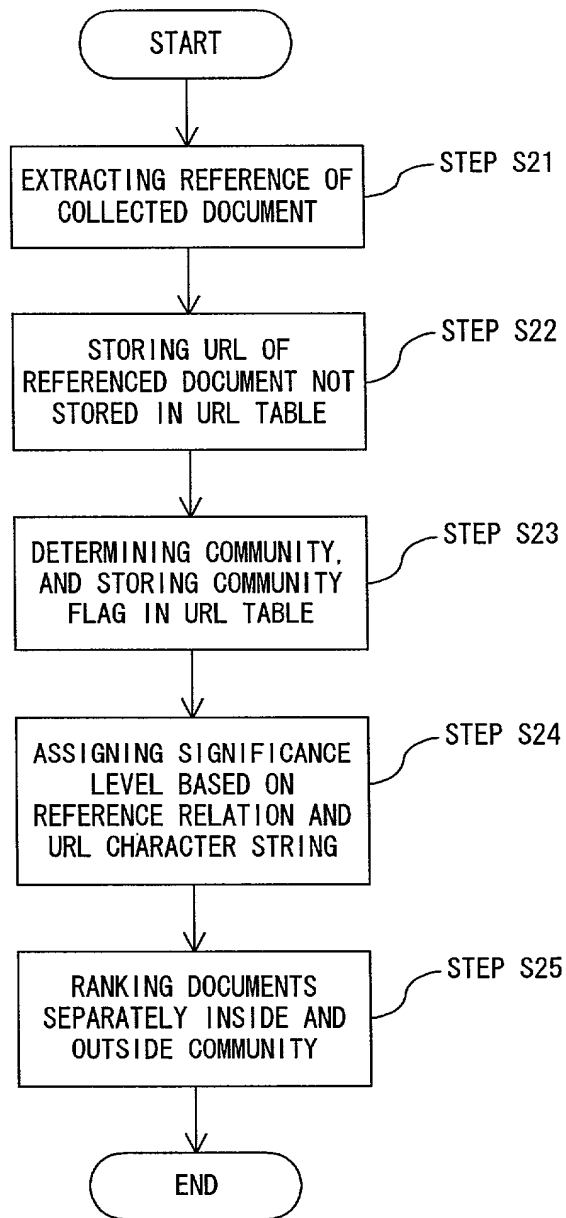


FIG. 9

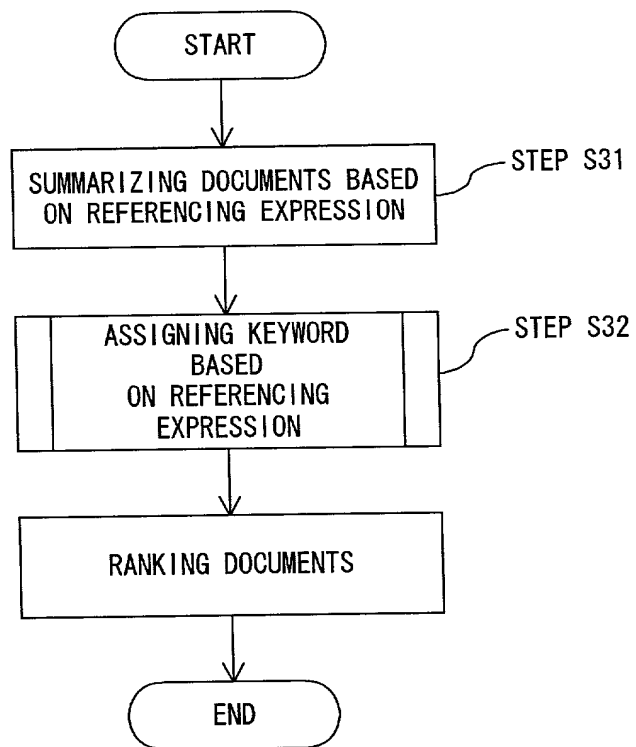


FIG. 10

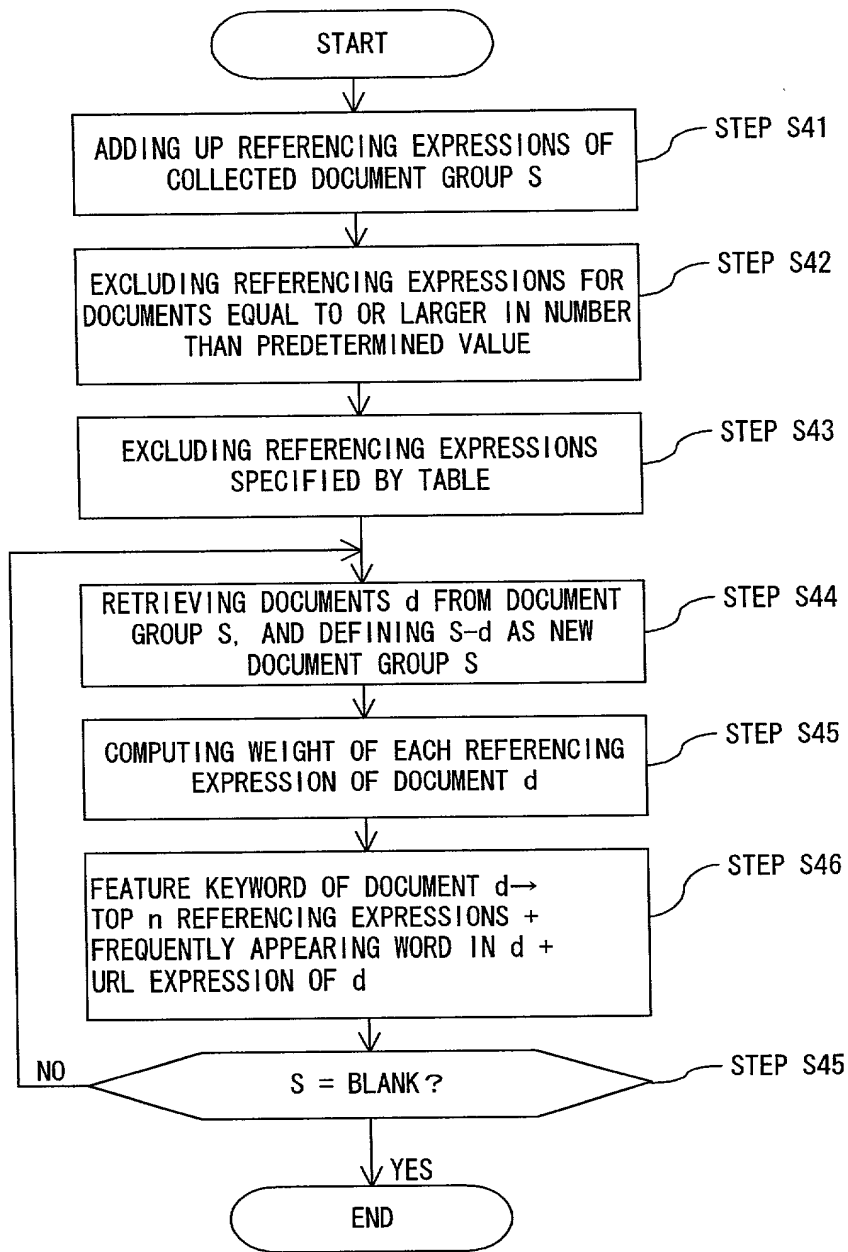


FIG. 11

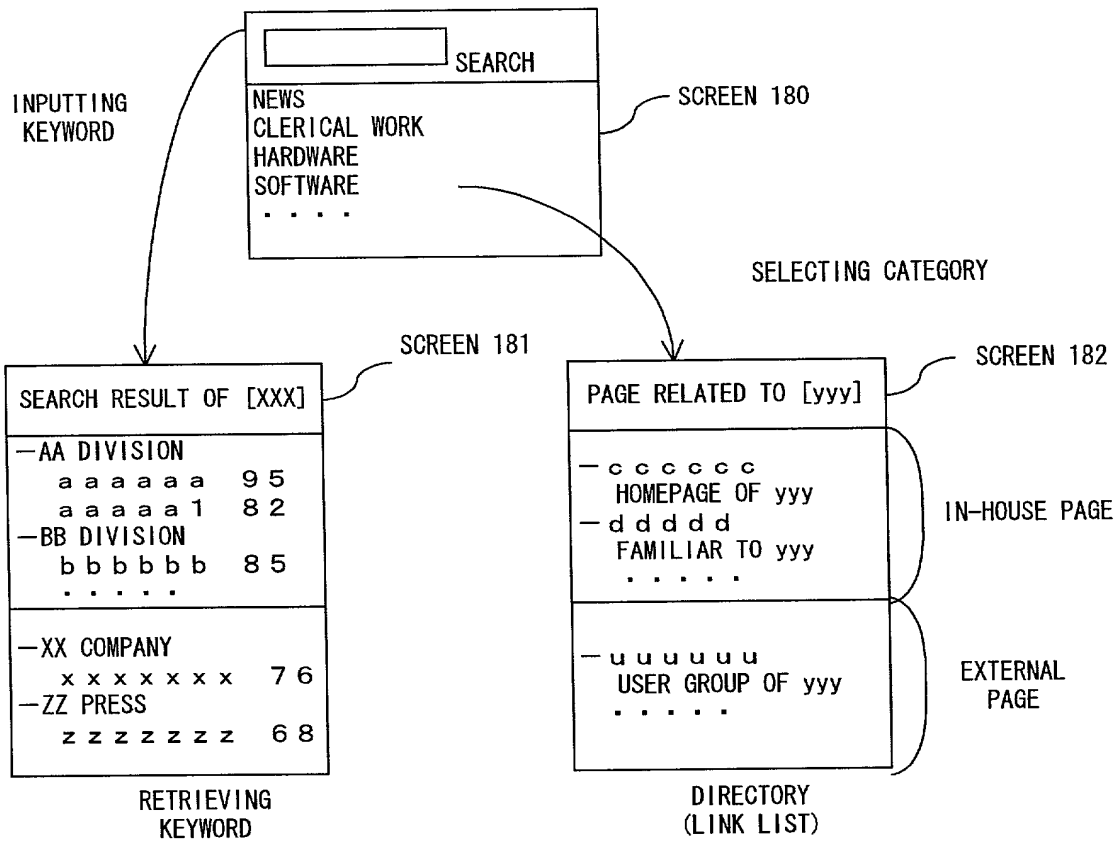


FIG. 12

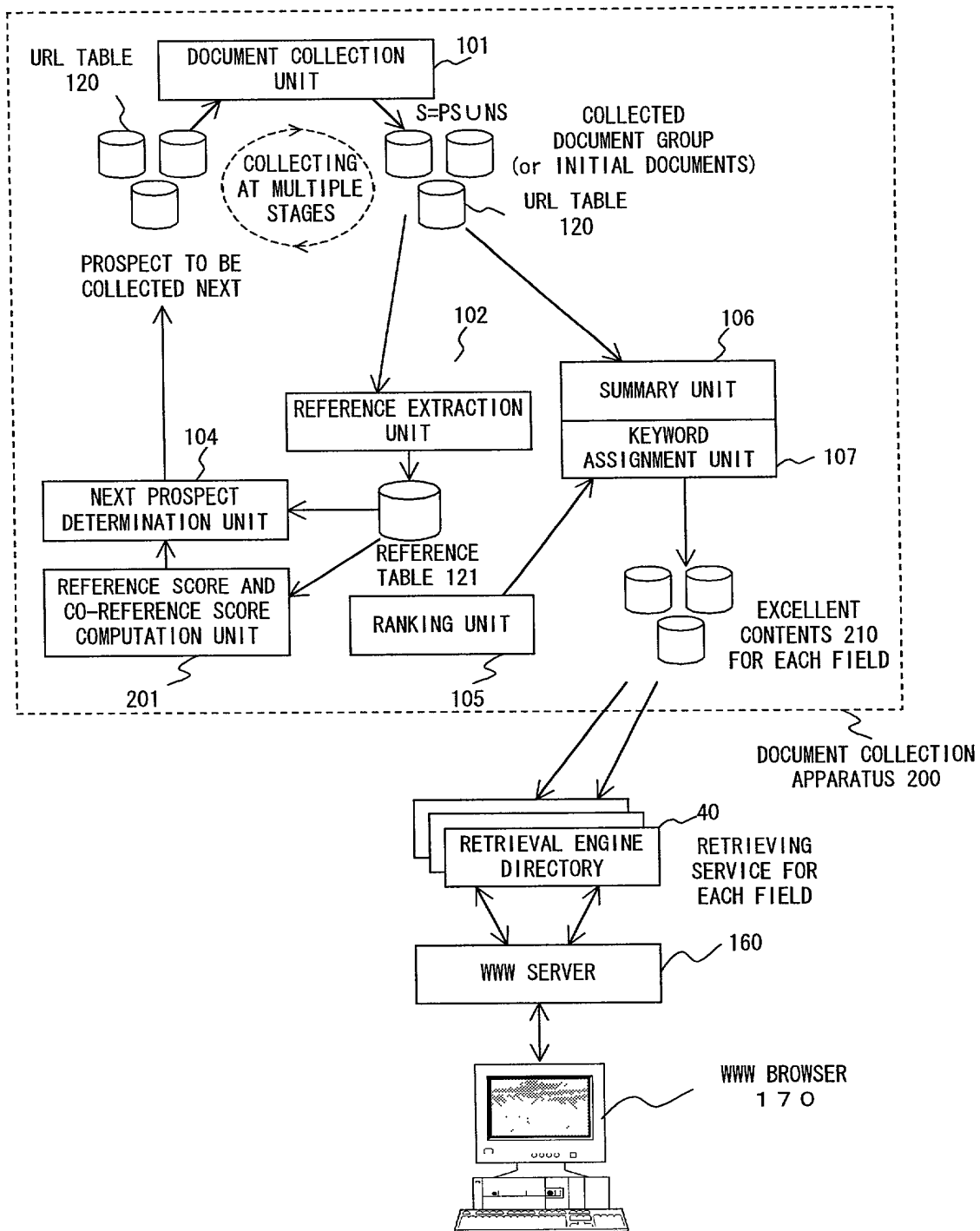


FIG. 13

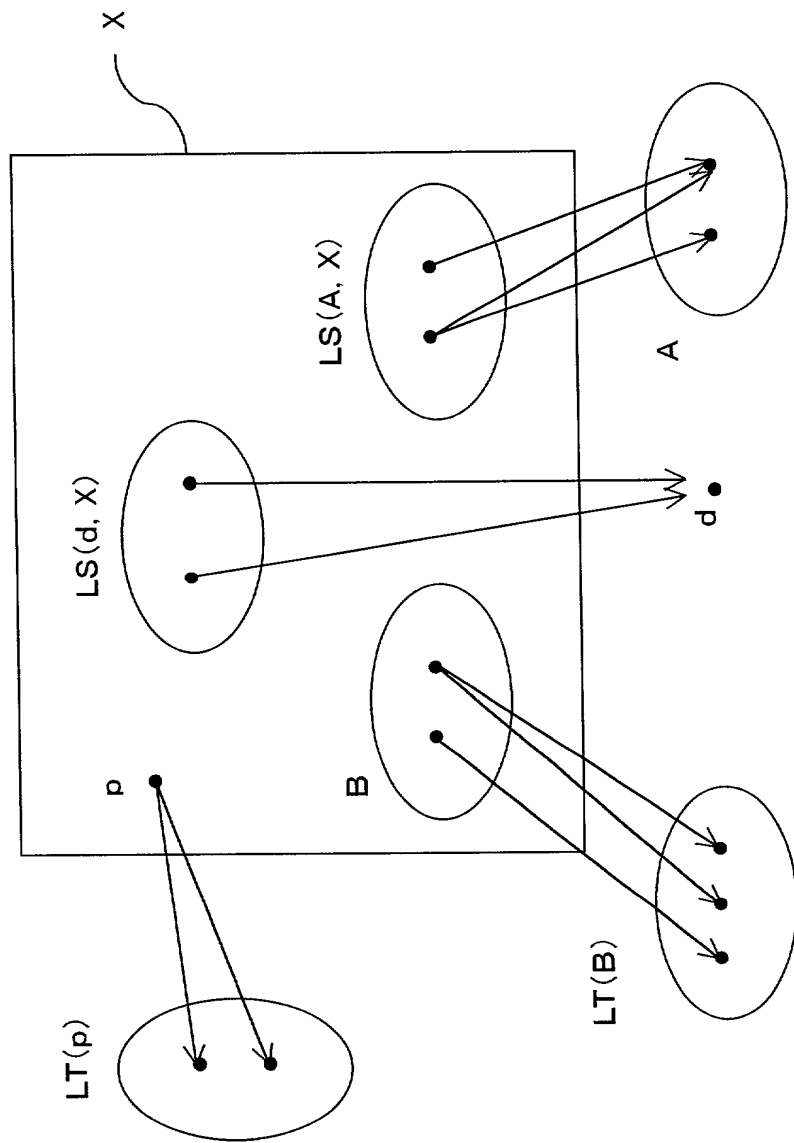


FIG. 14

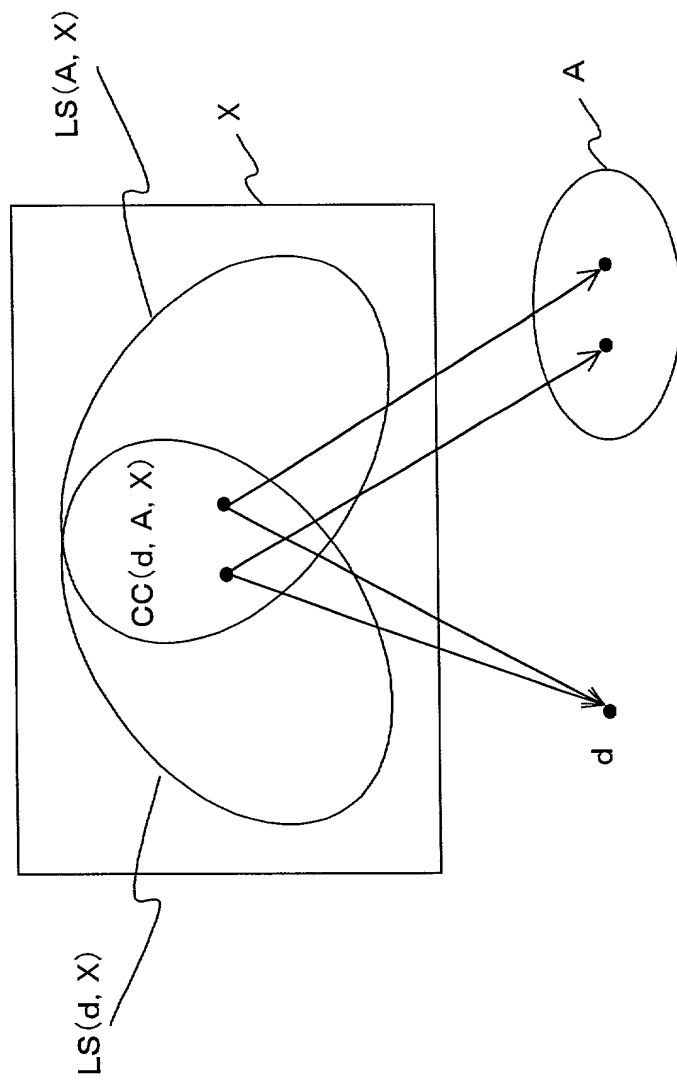


FIG. 15

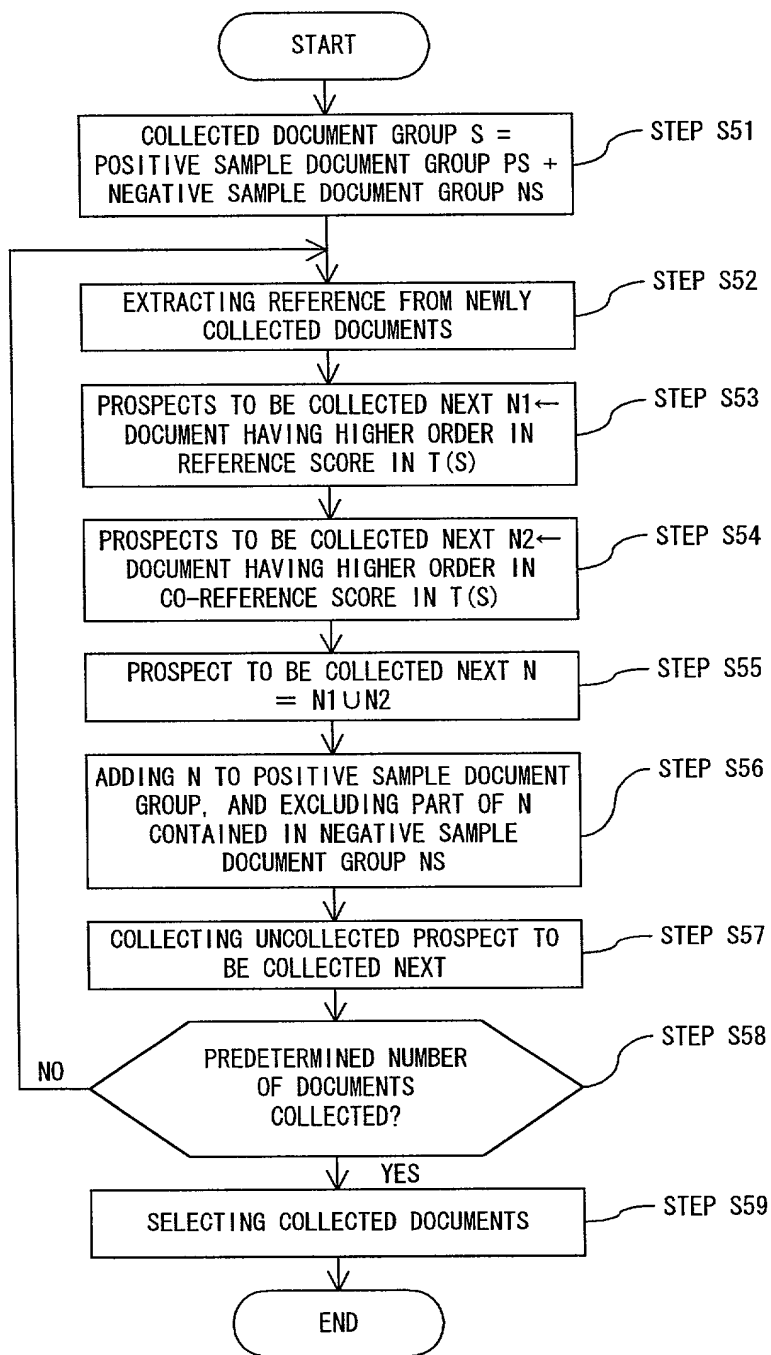


FIG. 16



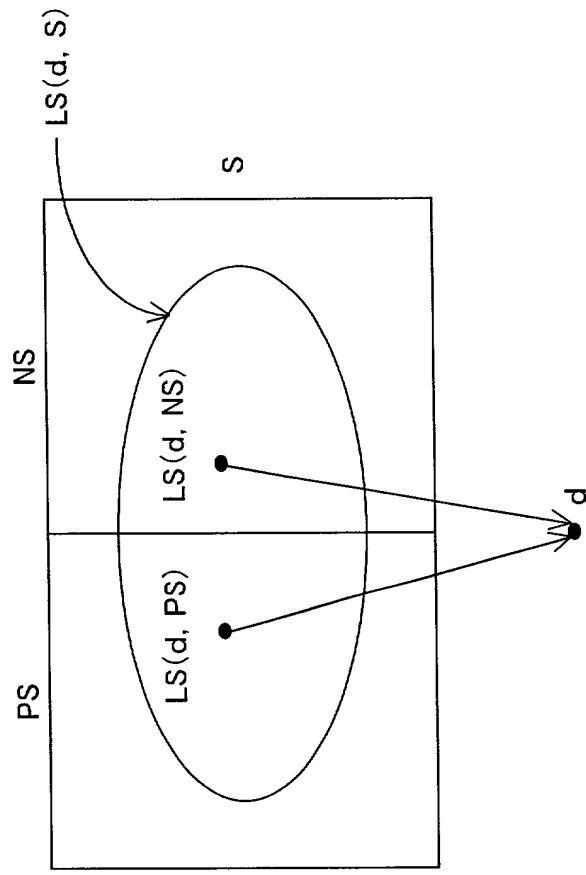


FIG. 17

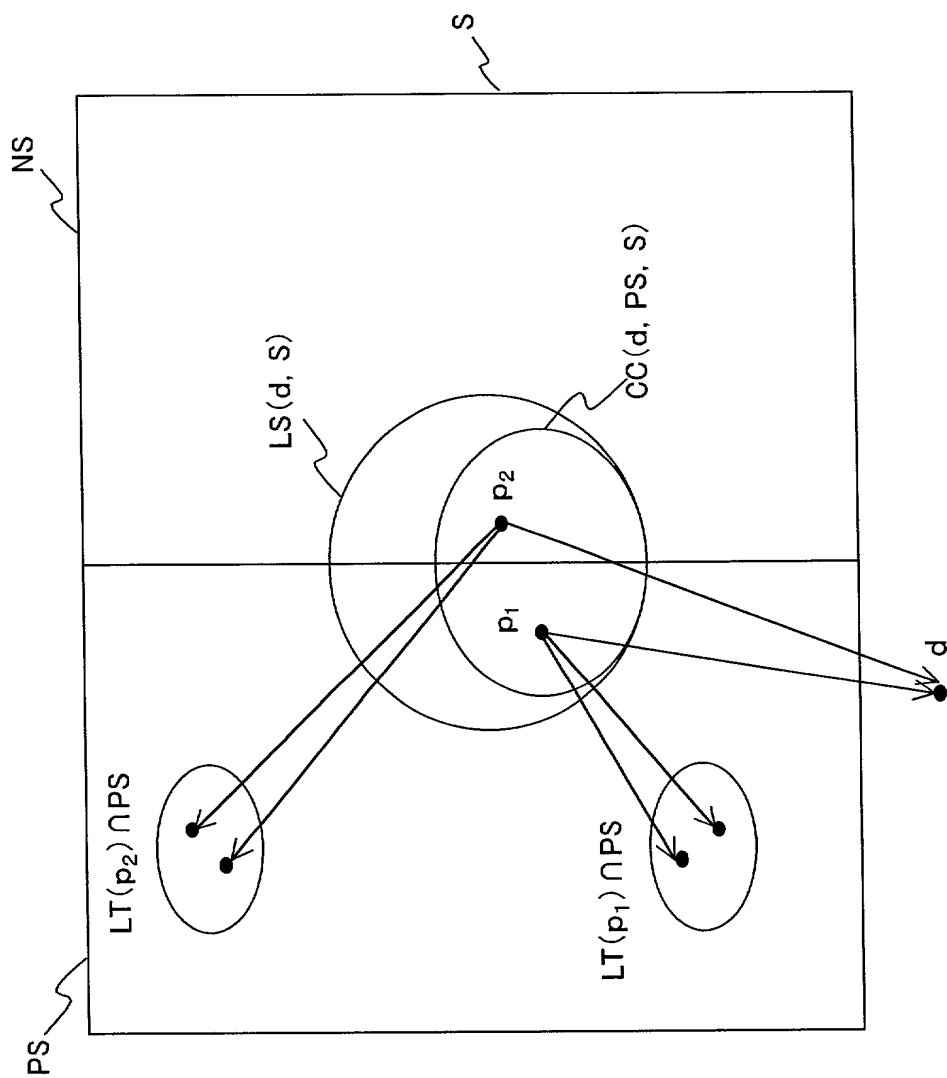


FIG. 18

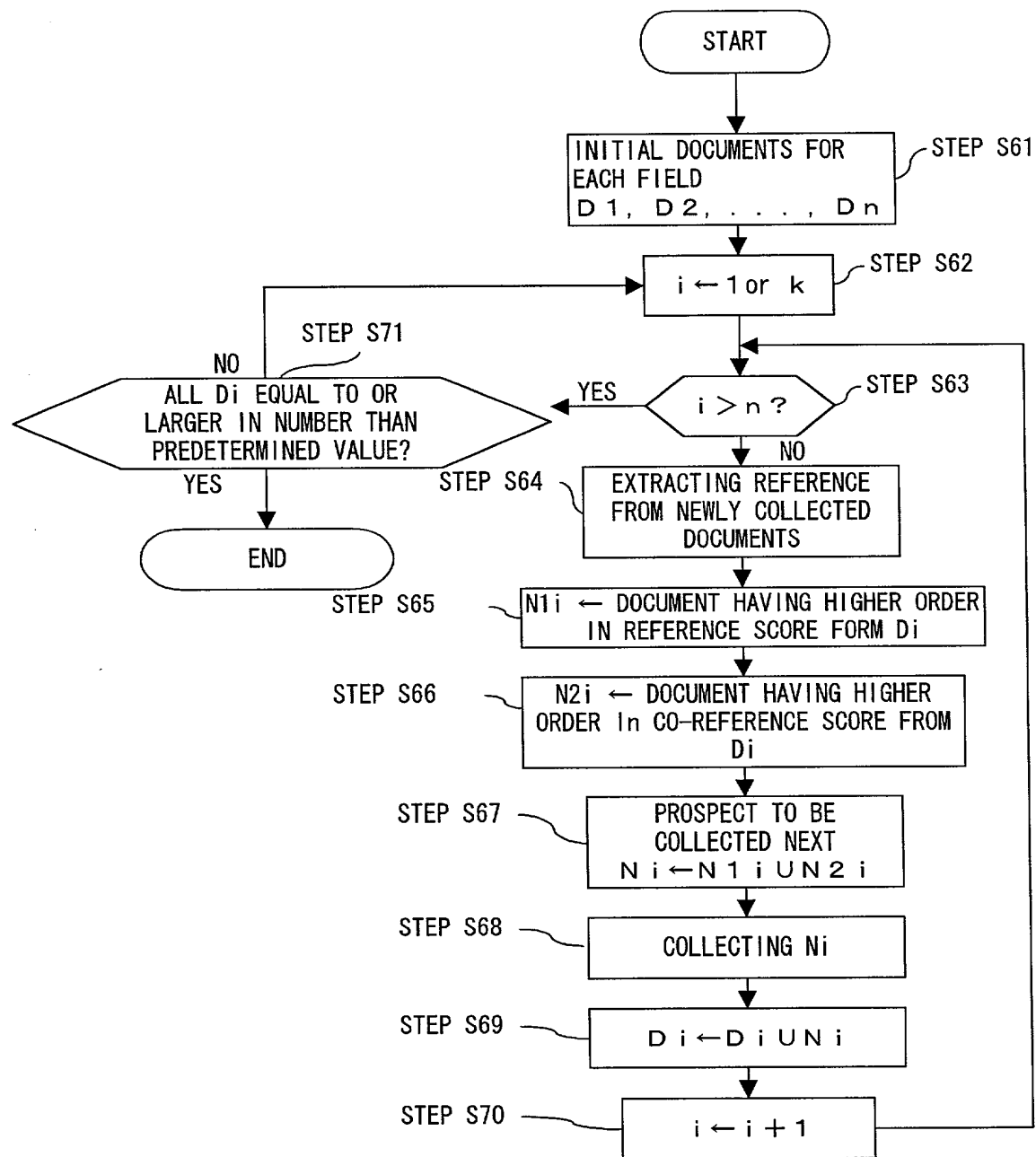


FIG. 19

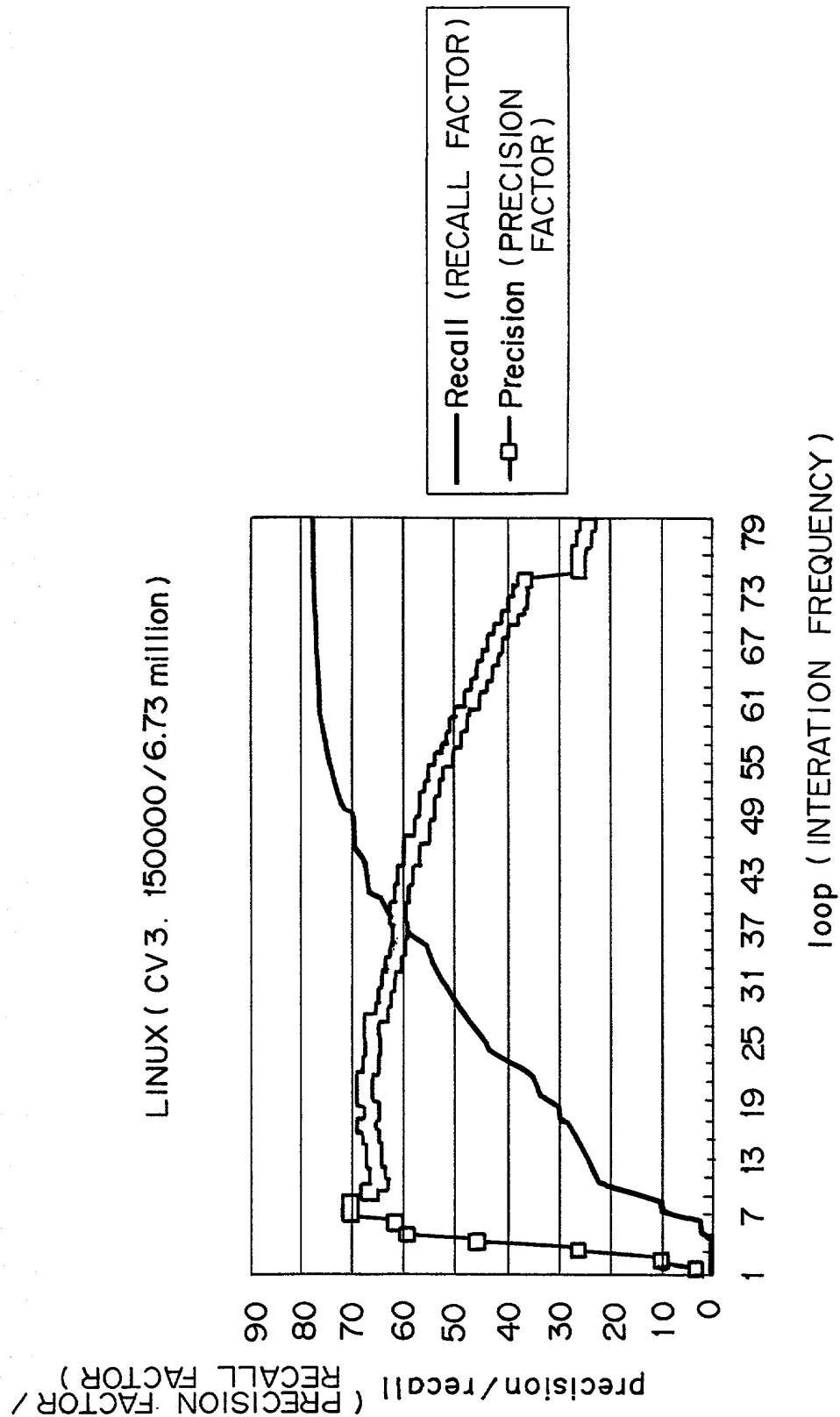


FIG. 20

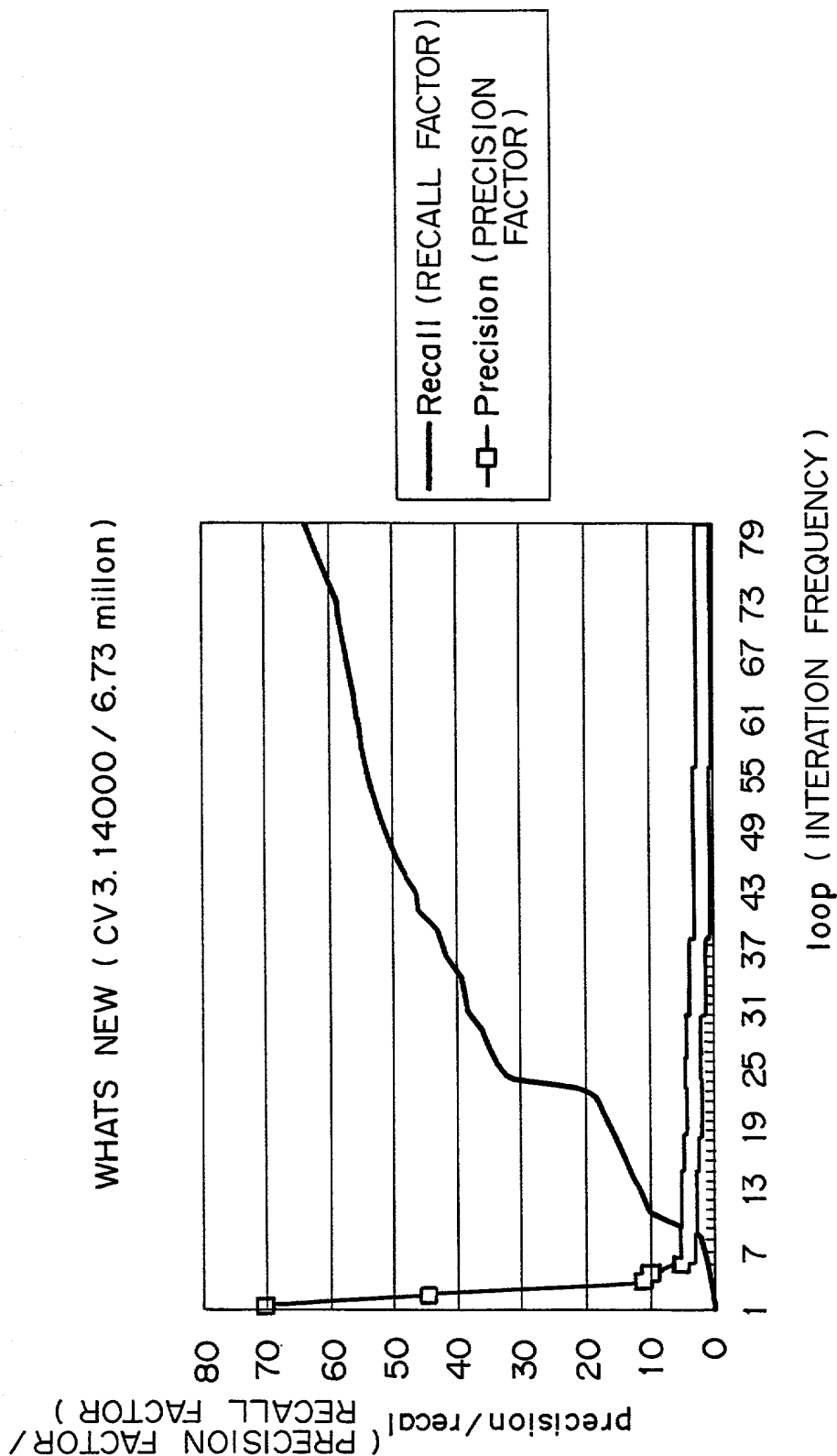


FIG. 21

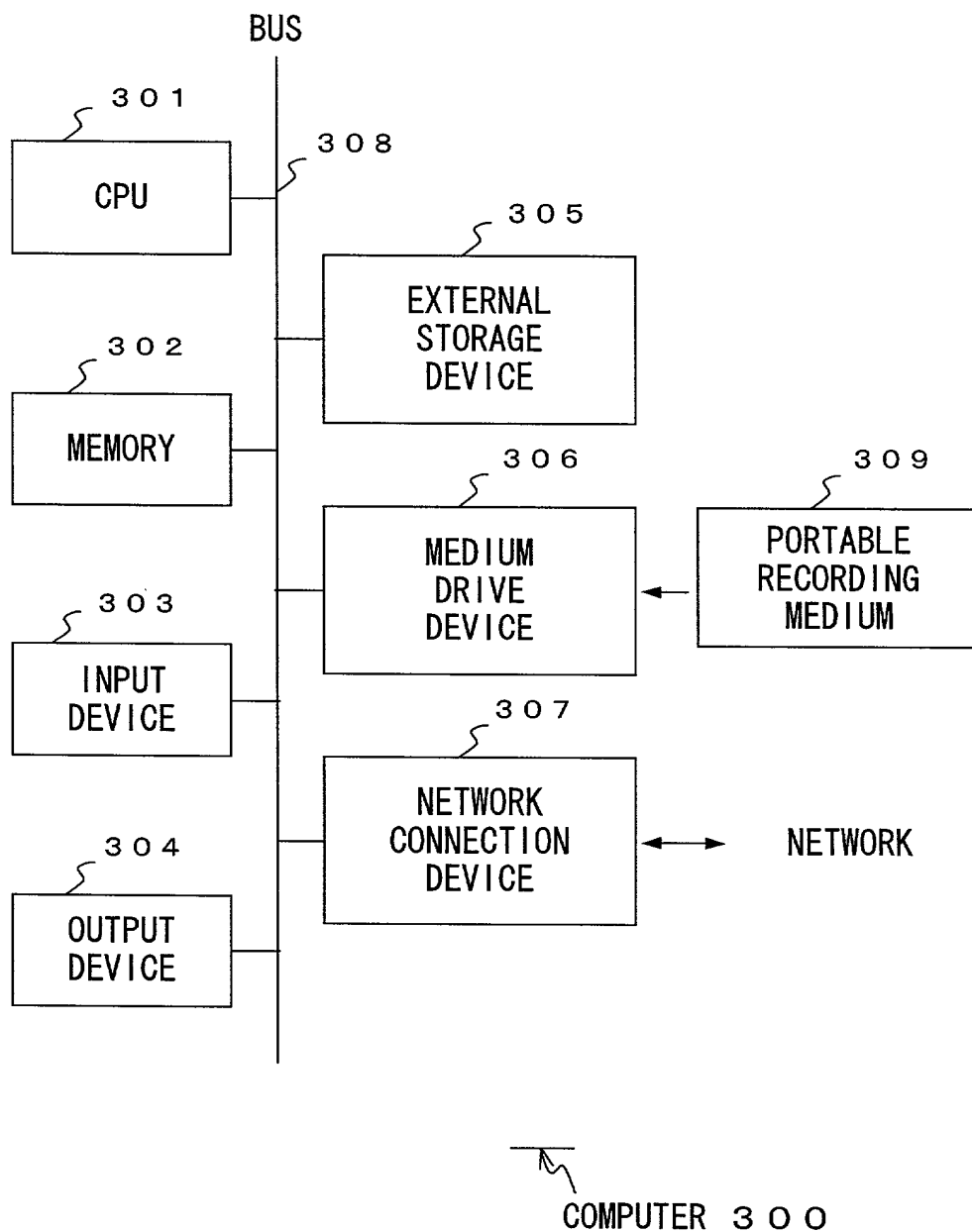


FIG. 22

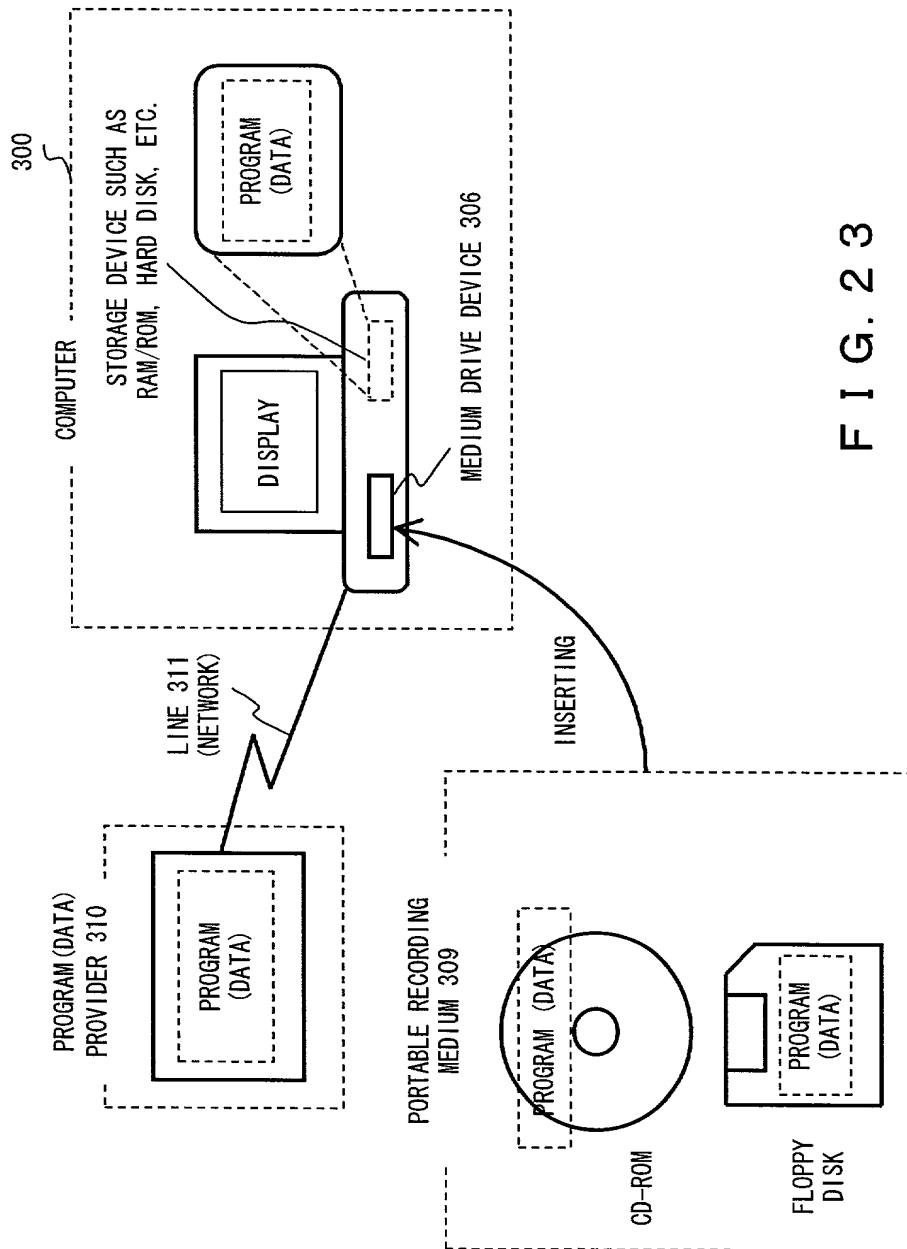


FIG. 23